

Sustainability –“ Can we continue to use the earth’s resources without threatening future generations?”

Achievement Objectives

Planet Earth and Beyond

- -Explore and describe natural features and resources.
- -Describe how natural features are changed by natural human interactions

Chemistry and Society

- Find out about the uses of Gold and Silver and how their uses relate to their observed properties

Social Sciences

- understand how places influence people and people influence places

Key Competencies – Thinking, Using Symbols Language and Text, Participating and Contributing, Managing self, Relating to others

Activity One – Gold mining, an introduction to Waihi.

Watch youtube video at <http://www.youtube.com/watch?v=QwxmxKf0vFI&feature=youtu.be>

<http://www.youtube.com/watch?v=UUXbbdU2Xro&feature=youtu.be>

Start a question board – What are my first thoughts and what do I want to know.

Skype with Phil Salmon Education Officer Newmont Waihi Gold. Book by phoning 07 8639880

The Waihi Google Map – Find the Waihi google map with the labels below. Cut these out and stick them on to the correct label. <http://newmontwaihigold.wikispaces.com/Lesson+Plans+and+Resources>(Waihi Mining Birds Eye)

Activity Two – What is sustainability? Is gold mining sustainable on the environment?

Find a definition of sustainability and write the word “sustainable” as a word art piece using the letters to communicate its meaning.



Activity Three - How do we get the gold out?

See **The Mining Process Activities** at <http://newmontwaihigold.wikispaces.com/Lesson+Plans+and+Resources> Find it, Dig it..

Watch the mining process at <http://youtu.be/bf-KZ9Sun7c>

Answer the questions from the video or draw in pictures of what is happening at each stage.

Activity Four - The Environment. From Pit to Lake and Paddocks to Wetlands

See <http://newmontwaihigold.wikispaces.com/Lesson+Plans+and+Resources> and open

“The Environment and Mining” activity

Get a template of the lake and design all of the things that you think would be good to have on and around the lake to help make Waihi a fantastic place to live. Remember that it is for recreational crafts only. No Motors allowed!!!

Activity Five - Gold and silver - what is it used for and why do we need it?

See Resource (<http://newmontwaihigold.wikispaces.com/>) - We Rely on Gold and Silver, Uses of gold and Silver

Could we live without it?? Why is it so important to us??

Activity Six - On the board put up the survey results from

www.marthamine.co.nz/assets/.../newmont-update-26-10-2011.pdf

So, can we continue? As a group read the survey results. Is it worth getting the gold and Silver out?

In groups have children do a PMI - What are the benefits of mining, what the negatives of mining are and what ones are you not sure about.

Think of ways to that some of the negatives could be made better. Draw a diagram to show ways you could reduce noise, dust and other negatives.

Sustainability!! So what else do we need to look at?

Fish Resources and Marine Life, Recycling, Rubbish, Fresh Water